

**HIGHLAND SECONDARY SCHOOL**  
**2013 - TERM 1**  
**GRADE 12 MATHS**  
**TEST 2**

**Instructions:** Answer all the 5 questions. Show all the working.

1. An unbiased coin is tossed and a fair die is thrown. What is the probability of the results being a Head and a 2?  
 Answer:  $\frac{1}{12}$  [2 marks]

2. A shopping basket contains 3 buns, 8 potatoes, 4 apples and 5 sweets. The basket dropped. What is the probability that

(a) A potato fell out?

Answer:  $\frac{2}{5}$

[1 mark]

(b) An apple or potato fell out?

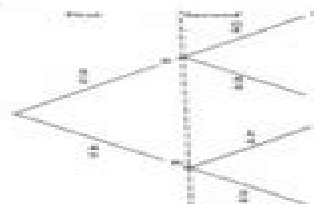
Answer:  $\frac{3}{5}$

[2 marks]

3. A bag contains 1 blue bead and 4 red beads. A girl takes two beads at random from the bag, one after the other.

(a) Draw the probability tree diagram.

Answer:



[2 marks]

- (b) Find the probability that she has taken  
 (i) Two red beads.  
 (ii) One bead of each colour.

Answer:  $\frac{3}{5}$

[2 marks]

Answer:  $\frac{2}{5}$

[2 marks]

4. Write down the equation of the line shown in the figure below.



Answer:  $m = -\frac{1}{2}$  [2 marks]

Answer:  $y = -\frac{1}{2}x + 1$  [3 marks]

5. The graph shows the speed of an object over a time of 10 seconds.



Find

- (i) the acceleration during the first 2sec  
 (ii) The deceleration in the second part  
 (iii) The total distance travelled  
 (iv) The average speed for the whole journey

Answer:  $5\text{m/s}^2$

[2 marks]

Answer:  $-2.5\text{m/s}^2$

[2 marks]

Answer:  $75\text{ m}$

[4 marks]

Answer:  $7.5\text{m/s}$

[2 marks]

# Maths Pexampler 2013 Grade 1sba

**DJ Losen**



**Maths Pexampler 2013 Grade 1sba:**

## Unveiling the Magic of Words: A Review of "**Maths Pexampler 2013 Grade 1sba**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Maths Pexampler 2013 Grade 1sba**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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